

AMENDMENT TO THE CLAIMS

The following is a listing of the claims and their status. Please cancel claims 2, 4 - 8, and 20 - 31, and amend the remaining claims as follows:

1. (currently amended) A method for on-line cleaning of the internal surfaces of selected sections of a hydrocarbon fuel burning gas turbine, during operation, without significant loss of turbine power, comprising the steps of:

contacting the surfaces to be cleaned with a cleaning composition comprising:
expandable graphite particles ranging in size from about 0.01 to about 50,000 microns
~~selected from the group consisting of graphite particles and molybdenum-based particles and~~
~~capable of expanding up to about 200 times their initial volume when heated above a~~
~~predetermined temperature;~~

an oil soluble magnesium carboxylate corrosion inhibitor sold under the trademark
LMG-30E ® having a minimum concentration of 25% magnesium; and
an aromatic solvent.

2. (canceled)

3. (currently amended) ~~The A method according to claim 2, wherein for on-line cleaning of the internal surfaces of selected sections of a hydrocarbon fuel burning gas turbine, during operation, without significant loss of turbine power, comprising the steps of:~~

contacting the surfaces to be cleaned with a cleaning solution composition comprising said expandable graphite particles ranging in size from about 0.01 to about 50,000 microns are formed of expandable graphite and are capable of expanding up to about 200 times their initial volume when heated above a predetermined temperature.

4 through 8 (canceled)

9. (currently amended) The method according to claim [[5]] 1, wherein said cleaning composition comprises from about 1.0 wt % to about 3.0 wt % of said expanded graphite particles; and from about 97 wt % to about 99 wt % of said oil soluble corrosion inhibitor.

10. (currently amended) ~~The A method according to claim 5, wherein for on-line cleaning of the internal surfaces of selected sections of a hydrocarbon fuel burning gas turbine, during operation, without significant loss of turbine power, comprising the steps of:~~

contacting the surfaces to be cleaned with a cleaning composition comprising:
particles ranging in size from about 0.01 to about 50,000 microns selected from the group consisting of graphite particles and molybdenum-based particles;

an oil soluble corrosion inhibitor selected from the group consisting of a magnesium carboxylate corrosion inhibitor sold under the trademark LMG-30E ®, magnesium, cerium, zirconium, nickel, silicon, chromium, aluminum, barium, manganese, and iron, and mixtures thereof; and

said cleaning composition further comprises an aromatic solvent.

11. (original) The method according to claim 10, wherein

 said cleaning composition comprises about 1.0 wt % of said particles;

 about 15.7 wt % of said aromatic solvent; and

 about 83.3 wt % of said oil soluble corrosion inhibitor.

12. (original) The method according to claim 10, wherein

 said cleaning composition further comprises a surfactant.

13. (original) The method according to claim 12, wherein

 said cleaning composition comprises about 1.0 wt % of said particles;

 about 13.2 wt % of said aromatic solvent; and

 about 2.5 wt % of said surfactant; and

 about 83.3 wt % of said oil soluble corrosion inhibitor.

14. (withdrawn) The method according to claim 1 wherein
said contacting step comprises periodically feeding said cleaning composition into the
combustion section of the turbine during operation thereof.

15. (withdrawn) The method according to claim 14 wherein
said turbine is equipped with water wash nozzles in fluid communication with the
combustion chamber of the turbine and said cleaning composition is fed into said combustion
chamber through said water wash nozzles by pressurized air.

16. (withdrawn) The method according to claim 1 wherein
said contacting step comprises periodically or continuously feeding said cleaning
composition into the compressor section and hot gas section of the turbine during operation thereof
by introducing it through the air intake downstream from the air filter with the inlet air to clean the
compressor, and thereafter said cleaning composition continuing into the hot gas section of the gas
turbine to clean the hot gas section.

17. (withdrawn) The method according to claim 1 wherein
said turbine is equipped with an air conduit in fluid communication with the combustion
chamber of the turbine and said contacting step comprises periodically or continuously feeding said
cleaning composition into the combustion section of the turbine during operation thereof by
injecting it into the combustion air through the air conduit, and thereafter said cleaning composition
continuing into the hot gas section of the gas turbine to clean the hot gas section.

18. (withdrawn) The method according to claim 1 wherein
the turbine exhaust is connected with downstream heat recovery equipment, including boiler
tubes, in a co-generation or combined cycle system; and
said contacting step comprises feeding said cleaning composition into the turbine section to
be cleaned by selectively introducing it either through the air intake downstream from the air filter
with the inlet air to clean the compressor, or by injecting it into the combustion air through the air
conduit, whereby said cleaning composition continues into the hot gas section of the gas turbine to
clean the hot gas section and is mixed and transported in the turbine exhaust; and thereafter
conducting the exhaust and cleaning composition mixture through the boiler tubes at a velocity
sufficient to impinge on, and clean, the interior surfaces of the boiler tubes.

19. (withdrawn) The method according to claim 1 wherein
said contacting step comprises periodically feeding a charge of said cleaning composition
into the turbine section to be cleaned for a period of time sufficient to effect evenly distributed flow,
monitoring the actual power output and turbine exhaust temperature during this time period, and
when no further increase in the power output or decrease in the turbine exhaust temperature is
noted, discontinuing the cleaning sequence.

20 through 31 (canceled)